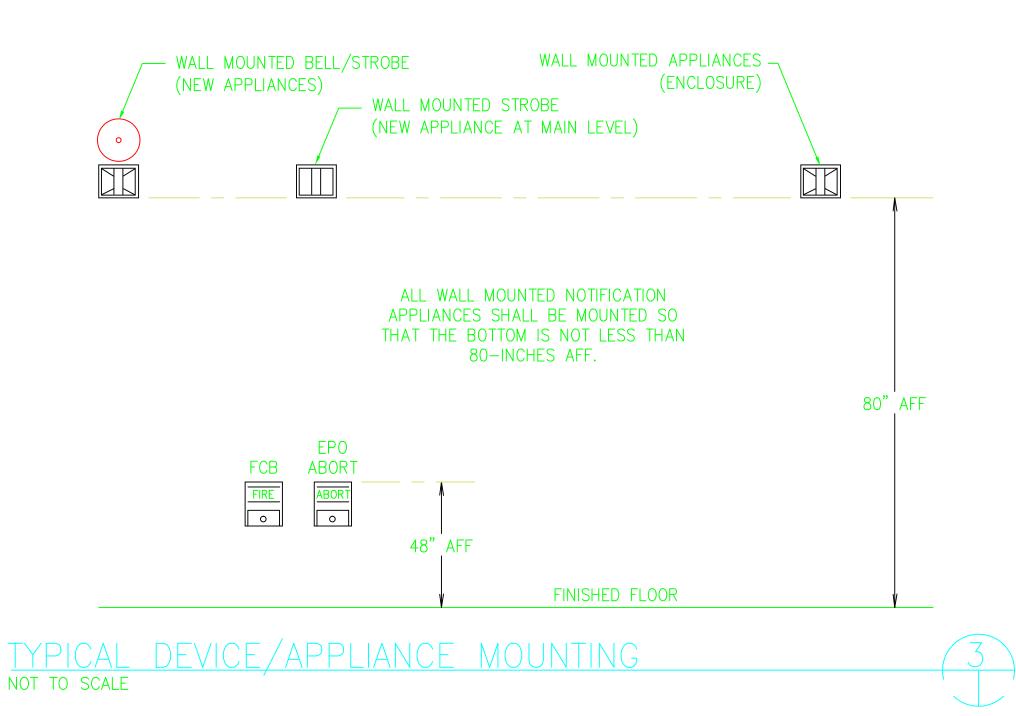
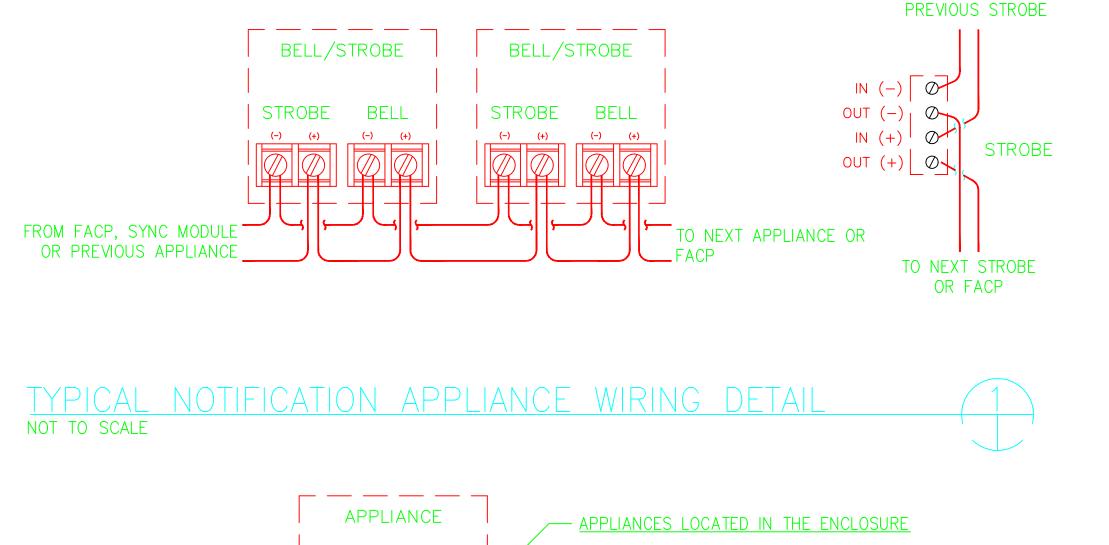
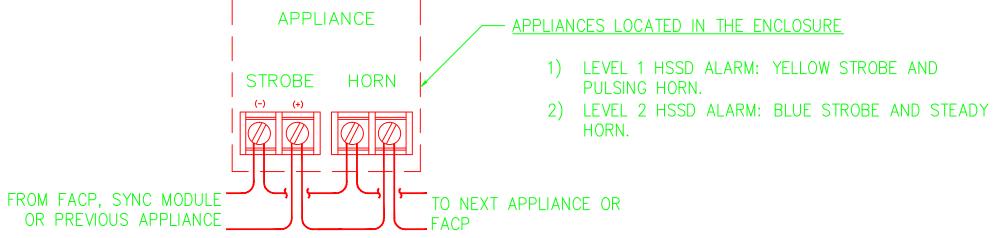
GENERAL NOTES:

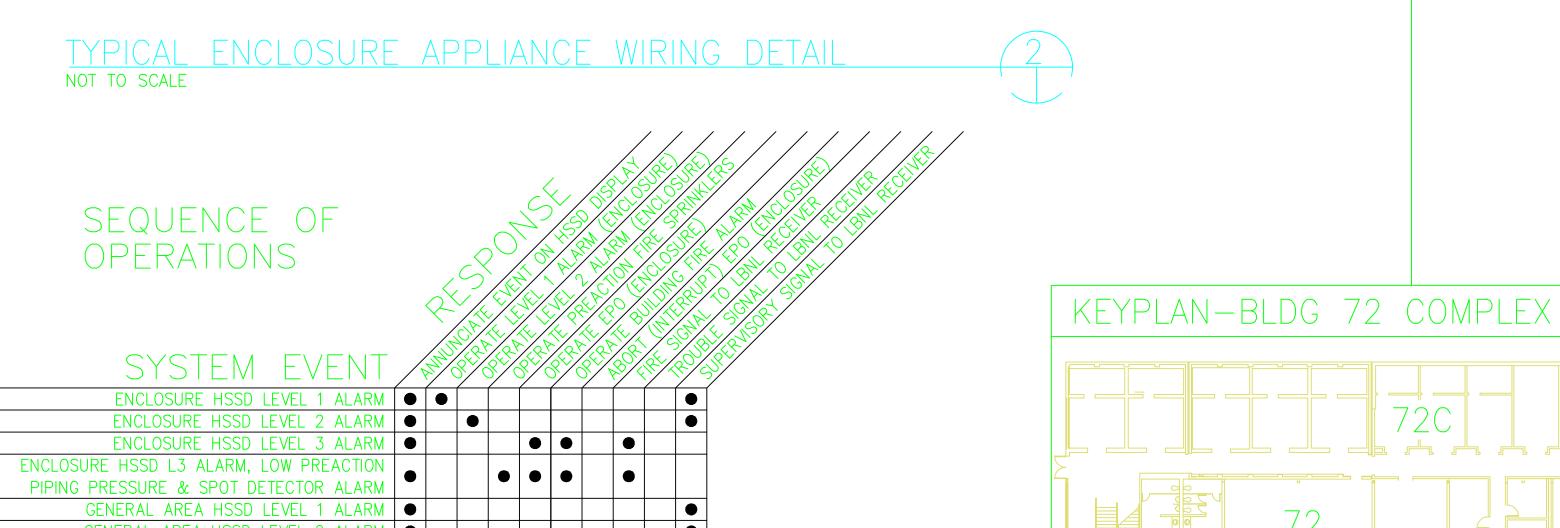
IN GENERAL, WORK SHALL INCLUDE, BUT NOT BE LIMITED TO:

- 1) THE DETAILED DESIGN, FABRICATION, PROCUREMENT, AND INSTALLATION OF THE FIRE PROTECTION SYSTEMS ADDITIONS AND MODIFICATIONS AS INDICATED ON THE CONTRACT DRAWINGS. THE FIRE PROTECTION SYSTEM CONSISTS OF A PREACTION FIRE SPRINKLER SYSTEM PROTECTING THE HVEM ENCLOSURE. THIS SYSTEM IS ACTUATED BY THE LEVEL 3 HSSD ALARM AND SPOT TYPE DETECTOR ALARM (LOCATED IN THE ENCLOSURE) AND LOSS OF AIR PRESSURE IN THE PREACTION SYSTEM PIPING (E.G. DOUBLE INTERLOCK SYSTEM). HSSD DETECTION AND WET-PIPE FIRE SPRINKLERS ALSO PROVIDE PROTECTION OF THE GENERAL AREA.
- 2) INSTALLATION OF NEW CONDUIT, RACEWAY SYSTEM MODIFICATIONS AND RACEWAYS FOR THE FIRE ALARM SYSTEM MODIFICATIONS.
- 3) ALL PENETRATIONS THROUGH WALLS, FLOORS AND CEILINGS NECESSARY FOR THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS INCLUDING THE INSTALLATION OF APPROVED FIRESTOP ASSEMBLIES NECESSARY TO MAINTAIN THE DESIGNED FIRE RESISTANCE RATING OF THE WALL, CEILING, OR FLOOR ASSEMBLY.
- 4) DELETIONS, MODIFICATIONS, AND ADDITIONS TO THE EXISTING FIRE ALARM SYSTEM AS INDICATED.
- 5) SYSTEMS AND DEVICE TESTING.
- 6) THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND IMPLEMENTING ALL SAFETY PROGRAMS AND PROCEDURES FOR THIS PROJECT AND SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
- 7) THE CONTRACT DRAWINGS ARE DIAGRAMMATIC ONLY. SUBCONTRACTOR SHALL DETERMINE THE ACTUAL MEASUREMENTS AND MAKE ANY AND ALL SUCH LENGTH AND OFFSET ADJUSTMENTS AND FIRE ALARM CONTROL UNIT PROGRAMMING AS MAY BE NECESSARY TO COMPLETE THE INSTALLATION AT NO CHANGE IN THE CONTRACT PRICE. THE DRAWINGS ARE NOT INTENDED TO RELIEVE THE SUBCONTRACTOR OF ANY RESPONSIBILITY FOR AVOIDING CONFLICTS OR OBSTRUCTIONS, OR FOR INSTALLING THE FIRE ALARM DEVICES AND EQUIPMENT AS REQUIRED TO PROVIDE COMPLETE PROTECTION OF THE DESIGNATED AREAS IN ACCORDANCE WITH THE REQUIREMENTS OF THE REFERENCED STANDARDS AND THE SPECIFICATIONS. WRITTEN APPROVAL SHALL BE OBTAINED FROM THE OWNER'S REPRESENTATIVE PRIOR TO MAKING ANY MAJOR DEVIATIONS FROM THE ARRANGEMENT AND LAYOUT SHOWN ON THE DRAWINGS.
- 8) ALL EQUIPMENT SHALL BE NEW, AND APPROVED AND/OR LISTED BY UNDERWRITERS' LABORATORIES OR FACTORY MUTUAL.
- 9) SYSTEM, EQUIPMENT, INSTALLATION, AND MATERIALS AND METHODS USED SHALL COMPLY WITH THE FOLLOWING:
 - A) THE REQUIREMENTS OF THE LAWRENCE BERKELEY NATIONAL LABORATORY.
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72 NATIONAL FIRE ALARM CODE, 1999 EDITION.
 - CALIFORNIA BUILDING AND FIRE CODES, 2001 EDITIONS.
- MANUFACTURER'S RECOMMENDATIONS AND GUIDELINES.
- 10) THE SUBCONTRACTOR SHALL HAVE THE HSSD MANUFACTURER (OR REPRESENTATIVE) DEVELOP AND SUBMIT CALCULATIONS, TRANSPORT TIMES, ETC. FOR APPROVAL PRIOR TO STARTING ANY INSTALLATION.









GENERAL AREA HSSD LEVEL 2 ALARM GENERAL AREA HSSD LEVEL 3 ALARM ENCLOSURE SPOT DETECTO PREACTION SYSTEM PIPING LOW AIR PRESSUF PREACTION CYLINDER LOW PRESSUR PREACTION WATERFLOW PREACTION VALVE SUPERVISION EPO ABORT SWITCH HSSD DETECTOR TROUBL HSSD POWER SUPPLY TROUBLE

THE SEQUENCE OF OPERATIONS ABOVE ADDRESSES ACTIONS AS A RESULT OF THIS PROJECT ONLY (E.G. ALL BUILDING FIRE ALARM FUNCTIONS ARE NOT SHOWN).

72A BLDG 72B AREA OF WORK BUILDING 72B (ARM BUILDING) RENOVATION - TEAM 1.0

DATE 8/21/2007 DWH CHECKED BY BBT 8/21/2007 APPROVED BY CAD FILE PATH 00022626

SCALE As Noted DRAWING NO.

TECTONICS

No. 1165 Exp. 9/30/08

RECORD DRAWING **AS-BUILT** 28 SEPT 2012



CONSTRUCTION 1 DWH BBT -- 04/11/08 ENCLOSURE SIZE CHANGE ISSUE (PROGRESS, ESTIMATE, BID, CONSTRUCTION, CONFORMED, REVISION, AS-BUILT) REVISION DRAWN CHECKED APPR'D BY BY

CONSULTING FIRM

CONSULTING FIRM

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CONSULTING A/E FIRM

PROFESSIONAL SEAL
(IF REVISION, APPLIES ONLY TO REVISED WORK)

LAWRENCE BERKELEY NATIONAL LABORATORY FACILITIES DIVISION PROJECT NO. FM7200

FIRE ALARM SYSTEMS

UNIVERSITY OF CALIFORNIA

LEGEND

FACE EXISTING FIRE ALARM CONTROL PANEL

PRESSURE OPER WATERFLOW SWITCH

VALVE POSITION SUPERVISORY SWITCH

SPRINKLER LOW AIR SUPERVISION

HSSD LEVEL 1 ALARM (ENCLOSURE)

HSSD LEVEL 2 ALARM (ENCLOSURE)

(1) EXISTING SMOKE DETECTOR

NEW SMOKE DETECTOR

HSSD NEW HSSD DETECTOR

PWR NEW POWER SUPPLY

DISP NEW HSSD ALARM DISPLAY

A EPO ABORT (ENCLOSURE)

O RACEWAY JUNCTION BOX

HSSD SAMPLE ORIFACE

—H— HSSD SAMPLE PIPE

— EXISTING FIRE ALARM CONDUIT

—C— NEW ¼ INCH FIRE ALARM CONDUIT

OB NEW BELL/STROBE

s NEW STROBE

EXISTING BELL

FROM FACU SYNC MODULE OR

SHEET FA0.1 4B72BE0